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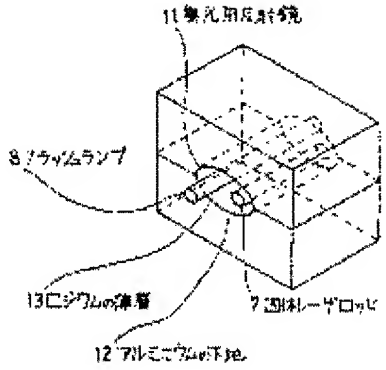
(54) CONDENSING DEVICE FOR SOLID LASER OSCILLATOR



(57)Abstract:

PURPOSE: To condense beams in a predetermined absorption wavelength region efficiently, and to prevent the lowering of reflectivity for a prolonged term by forming the reflecting surface of a reflecting mirror for a condensing device for an oscillator in a thin-film in prescribed thickness of any of platinum, rhodium or a platinum-rhodium alloy.

CONSTITUTION: The foundation of Al of the body of a condensing reflector 11 for a condensing device is plated with platinum to form a reflecting surface by the thin-layer. A thin-layer 13 consisting of rhodium is shaped onto the Al foundation 13 of the body as a reflecting surface in specified thickness. A solid laser rod 7 is arranged to the reflecting mirror 11, the beam-condensing device for a solid laser oscillator is constituted, and the reflecting surface is formed in the thin-layer in thickness to 20μm from 1μm composed of any of platinum, rhodium or a platinum-rhodium alloy, thus efficiently condensing beams in an absorption wavelength region in the solid laser oscillator made up of Cr, Nd:GSAG or Cr,

Nd:GSGG, then preventing the lowering of reflectivity for a prolonged term.

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